

Active Recombinant Human CD22 Protein, Fc-tagged, Alexa Fluor 488 conjugated

Cat. No. CD22-561HAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Alexa Fluor 488 conjugated recombinant human CD22-Fc fusion protein is expressed as an 892 amino acid protein consisting of Asp20-Thr683 region of CD22 (UniProt accession #P20273) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	HEK293
ProteinLength	20-683 a.a.
Bio-activity	Immobilized CD22 ECD protein supports the adhesion of human red blood cells. Binds anti-CD22 monoclonal antibodies with high affinity.
Molecular Mass	Calculated molecular mass: 100.2 kDa Estimated by SDS-PAGE under reducing condition: 120-130 kDa
AA Sequence	DSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR LYESTKDGKVPSEQKRVQF LGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWME RIHLNVSERPFPPHIQLPPEIQESQEVTLTCLLNFSY GYPIQLQWLLEGVPMRQAA VTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDADGKFLSNDTVQLNVKHTP KL EIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLLKKQNTFTLNLREVTK DQSGKYCCQVSNDVG PGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSL ANPLPTNYTWYHNGKEMQGRTEEKVHIPKILPWH AGTYSCVAENILGTGQRGPGA

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ELDVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPSVTRYEWKPHGAWEE PSL
 GVLKIQNVGWDNTTIACAACNSWCSWASPVALNVQYAPRDVVRKIKPLSEIHSGN
 SVSLQCDFSSSHPKKE VQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNISIG
 QTASKAWTLEVLYAPRRLRVSMSPGDQVMEGKSA TLTCESDANPPVSHYTWFDW
 NNQSLPYHSQKLRLEPVKVQHSGAYWCQGTNSVGKGRSPLSTLTVYYSPETSTG T
 HTCPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV
 DGVEVHNAKTKPREEQY NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
 ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVK GFYPSDIAVEWESNGQPENNY
 KTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLS PG
 K

Endotoxin < 0.1 EU/ µg of purified recombinant protein determined by the LAL method

Purity > 90 % by SDS-PAGE under reducing condition

Characteristic
 Disulfide-linked homodimer
 Labeled with Alexa Fluor 488 via amines
 Excitation Wavelength: 488 nm
 Emission Wavelength: 515-545 nm

Storage
 The product is shipped at 4 centigrade. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20 centigrade for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4 centigrade for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Storage Buffer Supplied at 0.5 mg/ml in sterile PBS pH 7.4 (carrier & preservative free).

Conjugation Alexa Fluor 488

GENE INFORMATION

Gene Name	CD22 CD22 molecule [Homo sapiens]
Official Symbol	CD22
Synonyms	CD22; CD22 molecule; CD22 antigen; B-cell receptor CD22; sialic acid binding Ig like lectin 2; SIGLEC 2; SIGLEC2; BL-CAM; T-cell surface antigen Leu-14; B-lymphocyte cell adhesion molecule; sialic acid binding Ig-like lectin 2; sialic acid-binding Ig-like lectin 2; SIGLEC-2; FLJ22814; MGC130020;
Gene ID	933
mRNA Refseq	NM_001185099
Protein Refseq	NP_001172028
MIM	107266
UniProt ID	P20273

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